(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 24 March 2005 (24.03.2005)

PCT

(10) International Publication Number WO 2005/027011 A3

(51) International Patent Classification⁷: G06F 19/00

(21) International Application Number:

PCT/EP2004/052150

(22) International Filing Date:

13 September 2004 (13.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

03103382.2

12 September 2003 (12.09.2003) EP

(71) Applicant (for all designated States except US):
QUADRAT [BE/BE]; Septestraat 27, B-2640 Mort-sel (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SIGO,

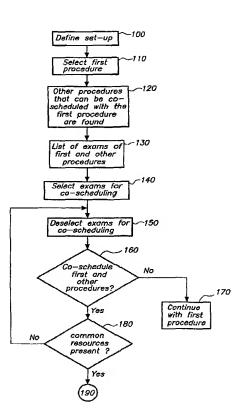
Miguel [BE/BE]; QUADRAT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE). VANSTEENKISTE, Henk [BE/BE]; QUADRAT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE). KIECKENS, Wannes [BE/BE]; QUADRAT, Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE).

(74) Common Representative: QUADRAT; Corporate IP Department 3800, Septestraat 27, B-2640 Mortsel (BE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: PLANNING OF SIMULTANEOUS EXAMINATIONS FOR A SINGLE PATIENT WITHIN ONE TIME SLOT



(57) Abstract: The current invention is in the field of scheduling appointments for exams to be performed on patients in a clinical environment, where an appointment must be consistent with the availability of different resources, such as rooms, medical devices and medical or paramedical staff. An opportunity arises when two or more exams must be scheduled for one patient. These exams may be scheduled separately, however it may be possible that a first exam and other exams may be scheduled in one time slot. This depends on the compatibility of the first axam and the other exams and on the simultaneous availability of the resources, required for the first exam and the other exams. If the3e conditions are fulfilled, a plurality of exams may be combined in one time slot, and the scheduling systems has to schedule the first exam only, which scheduling is then valid for all other co-exams.

WO 2005/027011 A3

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 28 July 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

Intermonal Application No PCT/EP2004/052150

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 389 454 B1 (RALSTON STEPHEN M ET AL) 14 May 2002 (2002-05-14) abstract column 4, line 65 - column 6, line 27	1-10
X	EP 0 306 965 A (INTELLIMED CORPORATION) 15 March 1989 (1989-03-15) abstract column 6, line 2 - line 10 column 6, line 33 - line 52 column 7, line 11 - line 51	1-10
X	US 2002/131572 A1 (PARADIS PETER R) 19 September 2002 (2002-09-19) paragraphs '0005!, '0016!, '0022!, '0031!	1-10

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 10 May 2005	Date of mailing of the international search report 24/05/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Platzer, C

INTERNATIONAL SEARCH REPORT

Intermional Application No
PCT/EP2004/052150

0.40	-U POOLULEUTO CONCINTED TO DE DEL EVANE	PC1/EP2004/052150
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Jaleguly -	Chairm of document, with indication, where appropriate, or the relevant passages	Helevant to Claim No.
X	US 2003/050801 A1 (RIES LINDA K ET AL) 13 March 2003 (2003-03-13) paragraphs '0008!, '0031! - '0033!, '0044! - '0046!, '0130!, '0164! - '0172!	1-10
Α	WO 03/025703 A (DUKE UNIVERSITY; SANDERSON, IAIN, C) 27 March 2003 (2003-03-27) page 3, line 1 - last line page 13, line 13 - line 23	1-10
A	BEN BASSAT M ET AL: "The W-6 approach to multi-dimensional scheduling: where AI and operations research meet" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS. LOS ANGELES, NOV. 4 - 7, 1990, NEW YORK, IEEE, US, 4 November 1990 (1990-11-04), pages 276-281, XPO10037919 ISBN: 0-87942-597-0 the whole document	
om PCT/ISA/		

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intermional Application No
PCT/EP2004/052150

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6389454	B1	14-05-2002	AU EP WO US	5132500 A 1183621 A2 0070488 A2 2003005055 A1	05-12-2000 06-03-2002 23-11-2000 02-01-2003
EP 0306965	A	15-03-1989	US AU CA EP IL JP JP	4937743 A 2206088 A 1294054 C 0306965 A2 87663 A 1162977 A 2634070 B2	26-06-1990 23-03-1989 07-01-1992 15-03-1989 21-06-1992 27-06-1989 23-07-1997
US 2002131572	A1	19-09-2002	DE DE WO GB	10197152 T5 20121932 U1 02056131 A2 2385447 A	04-11-2004 09-10-2003 18-07-2002 20-08-2003
US 2003050801	A1	13-03-2003	NONE		
WO 03025703	Α	27-03-2003	WO	03025703 A2	27-03-2003